

PERSONAL INFORMATIONS



Name Surname: Murat ÇAVUŞLU

Rank: Research Assistant

Degree: PhD

Google Scholar Address: <https://scholar.google.com/citations?user=2bWMuu4AAAAJ&hl=tr&oi=ao>

ORCID Address: <https://orcid.org/0000-0002-2285-8513>

Web of Science Address: <https://www.webofscience.com/wos/woscc/summary/0ceb7588-a018-4952-8706-a48238eff896-285a4bd1/relevance/1>

Scopus Author Identifier: [57197837593](https://orcid.org/0000-0002-2285-8513)

Web Address: <https://akademikcv.beun.edu.tr/cv/murat.cavusli.html>

Phone: +905438793515, +90372 291 19 46

E-Mail: murat.cavusli@beun.edu.tr - muratcavuslu@gmail.com

Contact Address: Department of Civil Engineering, Faculty of Engineering, Zonguldak Bulent Ecevit University, 67100, Zonguldak, Turkey.

Research Interests: Nonlinear seismic behaviour of dams, Finite Element-Discrete Element-Finite Difference modelling of structures, Performance analysis of structures, Structural dynamics, Nonstructural Elements.

Educational Background

BSc: Civil Engineering, Karadeniz Technical University, Gümüşhane Engineering Faculty (2008-2012)

MSc: Civil Engineering, Bulent Ecevit University (2014-2016)

MSc Thesis Title: Investigation of Three Dimensional Non-Linear Behaviour of Atatürk Dam.

PhD: Civil Engineering, Zonguldak Bulent Ecevit University (2016 –2022)

PhD Thesis Title: Seismic Designing of Non-structural Components Considering Shake Table Test and 3D Modelling.

Experiences

Kocaeli Vera Building Audit. Civil Engineer. (06.06.2012 - 12.12.2012)

Bilecik Municipality, Directorate of Technical Works. Civil Engineer (18.12.2012 - 14.05.2014)

Zonguldak Bulent Ecevit University, Department of Civil Engineering Research Assistant (14.05.2014 – Present)

Computer Knowledge

FLAC3D, ANSYS Mechanics, SAP2000, ideCAD static, Sta4CAD, ÇatıCAD, PHASE2D, AutoCAD

Assisted Courses

Strength of Materials 1

Strength of Materials 2

Reinforced Concrete 1

Reinforced Concrete 2

Computer Aided Structural Design

Steel Structures

Papers Published in International Scientific Journals with SCIE

- 1- **Çavuşlu, M. (2022)** “3D Seismic Assessment of Historical Stone Arch Bridges Considering Effects of Normal-Shear Directions of Stiffness Parameters Between Discrete Stone Elements” **Structural Engineering and Mechanics**, 83(2), 207-227. <https://doi.org/10.12989/sem.2022.83.2.207>. (SCIE).
- 2- Karalar, M., **Çavuşlu, M.**, Mert, N. (2022) “Determination of 3D Seismic Performance of Nonstructural Elements in a Collapsed RC Building Considering TBEC-2018” **Tehnički vjesnik – Technical Gazette**, 29(3), 1037-1047. <https://doi.org/10.17559/TV-20210112150414>. (SCIE).
- 3- Karalar, M. and **Çavuşlu, M. (2022)** “Determination of 3D Near Fault Seismic Behaviour of Oroville Earth Fill Dam Using Burger Material Model and Free Field-Quiet Boundary Conditions” **Mathematical and Computer Modelling of Dynamical Systems**, 28(1), 55-77. <https://doi.org/10.1080/13873954.2022.2033274>. (SCIE).
- 4- Karalar, M. and **Çavuşli, M. (2021)** “Three Dimensional Seismic Deformation-Shear Strain-Swelling Performance of America-California Oroville Earth-Fill Dam” **Geomechanics and Engineering**, 24(5), 201-213. <https://doi.org/10.12989/eas.2020.18.2.201>. (SCIE).
- 5- Karalar, M. and **Çavuşli, M. (2020)** “Seismic Effects of Epicenter Distance of Earthquake on 3D Damage Performance of CG Dams,” **Earthquakes and Structures**, 18(2), 201-213. <https://doi.org/10.12989/eas.2020.18.2.201>. (SCIE).
- 6- Karalar, M. and **Çavuşli, M. (2019)** “Assessing 3D seismic damage performance of a CFR dam considering various reservoir heights,” **Earthquakes and Structures**, 16(2). <https://doi.org/10.12989/eas.2019.16.2.221>. (SCIE).
- 7- Karalar, M. and **Çavuşli, M. (2019)** “Examination of 3D long-term viscoplastic behaviour of a CFR dam using special material models,” **Geomechanics and Engineering**, 17(2), 119–131, <https://doi.org/10.12989/gae.2019.17.2.119>. (SCIE).
- 8- Karalar, M. and **Çavuşli, M. (2019)** “Evaluation of 3D nonlinear earthquake behaviour of Ilisu CFR dam under far fault ground motions,” **Advances in Civil Engineering**, vol. 2019, Article ID 7358710, 15 pages. <https://doi.org/10.1155/2019/7358710>. (SCIE).

9- Kartal, M.E., **Çavuşli, M.**, Genis, M. (2019) “Investigation of Three Dimensional Nonlinear Analysis of Atatürk Dam Considering Settlement Monitoring,” **ASCE International Journal of Geomechanics**, 16(2). [https://doi.org/10.1061/\(ASCE\)GM.1943-5622.0001412](https://doi.org/10.1061/(ASCE)GM.1943-5622.0001412). (SCIE).

10- Karalar, M. and **Çavuşli, M.** (2018) “Effect of Normal and Shear Interaction Stiffnesses on Three-Dimensional Viscoplastic Creep Behaviour of a CFR Dam” **Advances in Civil Engineering**, vol. 2018, Article ID 2491652, 17 pages. <https://doi.org/10.1155/2018/2491652>. (SCIE).

11- Kartal, M.E., **Çavuşli, M.**, Sünbül, A.B. (2017) “Assessing seismic response of a 2D roller-compacted concrete dam under variable reservoir lengths,” **Arabian Journal of Geosciences**, 10(22), 1-18. <https://doi.org/10.1007/s12517-017-3271-y>. (SCIE).

Papers Published in International Scientific Journals with Other Indexes

1- Karalar, M., Oz, B., **Çavuşlu, M.** (2022) “Assessing Effects of Waste Coal Bottom Ash on Construction Cost of Reinforced Concrete Structures (RCs) Considering Experimental Data” *Challenge Journal of Concrete Research Letters*, Accepted.

2- Karalar, M., **Çavuşlu, M.** (2022) “Evaluating effects of granulated glass on structural and seismic behavior of tall RC structures using experimental tests and 3D modeling” *Challenge Journal of Structural Mechanics*, 8(2), 63-77. <https://doi.org/10.20528/cjsmec.2022.02.004>.

3- Karalar, M., **Çavuşli, M.** (2021) “Strengthening and performance assessing historical cinema hall balcony according to new Turkish Earthquake Code” *Challenge Journal of Structural Mechanics*, 7(1), 27-41. <https://doi.org/10.20528/cjsmec.2021.01.004>.

4- Karalar, M., **Çavuşli, M.** (2020) “Numerical Investigation on Damage Performance of a Reinforced Concrete Structure Subjected to Machine Loads” *Challenge Journal of Structural Mechanics*, 6(3), 132-139. <https://doi.org/10.20528/cjsmec.2020.03.004>.

5- Karalar, M., **Çavuşli, M.** (2020) “Tarihi Rombaki Yığma Yapısının Performans Değerlendirmesi” *Bitlis Eren Üniversitesi Fen Bilimleri Dergisi*, 9(1), 226-247. <https://doi.org/10.17798/bitlisfen.548792>.

6- Karabulut, M., Kartal, M.E., Çapar, Ö.F., **Çavuşli, M.** (2017) “Elastic foundation effects on arch dams” *Challenge Journal of Structural Mechanics*, 3(2), 102- 107.

- 7- Karabulut, M., Kartal, M.E., **Çavuşli, M.**, Coşkan, S., Dursun, O. (2017) “Investigation of Concrete Gravity Dam Behaviour Considering Dam–Foundation–Reservoir Interaction” The Online Journal of Science and Technology, 7(2), 78- 85.
- 8- Sünbül, A.B., **Çavuşli, M.**, Kartal, M.E., Sünbül, F. (2017) “A Case Study on 3D Non-Linear Analysis of a Clay Core Rockfill Dam” The Eurasia Proceedings of Science, Technology, Engineering Mathematics, 1(1), 388-396.
- 9- **Çavuşli, M.**, Özölçer, İ.H., Kartal, M.E., Karabulut, M., Coşkan, S. (2017) “The Effects of Reservoir Length On Earthquake Behaviour of Roller Compacted Concrete Dams” The Online Journal of Science and Technology, 7(1), 111-118.
- 10- Karabulut, M., Kartal, M.E., Çapar, Ö.F., **Çavuşli, M.** (2016) “Earthquake Analysis of Concrete Arch Dams Considering Elastic Foundation Effects” Disaster Science and Engineering, 2(2), 46-52.
- 11- **Çavuşli, M.**, Özölçer, İ.H., Kartal, M.E., Karabulut, M., Dağlı, E. (2015) “The Effect of Water Level on the Earthquake Behavior of Roller Compacted Concrete Dams” Disaster Science and Engineering, 1(2), 25-30.

Papers Presented in International Scientific Congresses and Published in Proceedings

- 1- Karalar, M., **Çavuşli, M.** (2020). Three Dimensional Nonlinear Seismic Effects of Epicenter Distance of Earthquake on Principal Stress Behaviour of Concrete Gravity Dams. The 2020 World Congress on Advances in Civil, Environmental, Materials Research (ACEM20) (Tam Metin Bildiri/Sözlü Sunum).
- 2- Karalar, M., Bilir, T., **Çavuşli, M.** (2020). 3D Experimental and Numerical Investigation on Crack Behaviour of RC Beams Under 75 Bottom Ash Ratio. The 2020 World Congress on The 2020 Structures Congress (Structures20) (Tam Metin Bildiri/Sözlü Sunum).
- 3- Karalar, M., **Çavuşli, M.** (2020). Assessing 3D Earthquake Behaviour of Nonstructural Components Under Eurocode 8 Standard. The 2020 World Congress on The 2020 Structures Congress (Structures20) (Tam Metin Bildiri/Sözlü Sunum).
- 4- Karalar, M., **Çavuşli, M.** (2020). Assessing of Earthquake Performance of Nonstructural Components Considering 2018 International Building Code. The 2020 World Congress on The 2020 Structures Congress (Structures20) (Tam Metin Bildiri/Sözlü Sunum).

- 5- Karalar, M., **Çavuşli, M.** (2019). Rombaki Tarihi Yığma Yapısının Performans Analizi. 7th International Symposium on Academic Studies in Science, Engineering and Architecture Sciences (Tam Metin Bildiri/Sözlü Sunum).
- 6- Karalar, M., **Çavuşli, M.** (2019). Tarihi Zonguldak Sinema Salonu Balkonunun Performans Analizi. 7th International Symposium on Academic Studies in Science, Engineering and Architecture Sciences (Tam Metin Bildiri/Sözlü Sunum).
- 7- Karalar, M., **Çavuşli, M.** (2019). 3D nonlinear seismic assessment of a concrete face rockfill dam under 1994 Northridge near fault earthquake. 2nd International Conference on Natural Hazards Infrastructure (Tam Metin Bildiri/Sözlü Sunum).
- 8- Karalar, M., **Çavuşli, M.** (2019). Seismic assessment of Ilisu concrete face rockfill dam considering near fault and far fault earthquakes. 2nd International Conference on Natural Hazards Infrastructure (Tam Metin Bildiri/Sözlü Sunum).
- 9- Karalar, M., **Çavuşli, M.** (2018). Three Dimensional Non-Linear Seismic Behaviour of Ilisu Dam Concrete Faced Rockfill Dam. 5th International Symposium on Dam Safety (Tam Metin Bildiri/Sözlü Sunum).
- 10- Karalar, M., **Çavuşli, M.** (2018). Examination of 3D Nonlinear Creep Behaviour of A Concrete Faced Rockfill Dam Considering Dam Body-Foundation-Concrete Slab Interaction. 5th International Symposium on Dam Safety (Tam Metin Bildiri/Sözlü Sunum).
- 11- **Çavuşli, M.**, Kartal, M.E. (2018). Investigation of Three Dimensional Nonlinear Behaviour of Atatürk Dam. 2nd International Symposium on Natural Hazards and Disaster Management, 286-295. (Tam Metin Bildiri/Sözlü Sunum).
- 12- **Çavuşli, M.**, Kartal, M.E. (2018). Earthquake Behaviour of Concrete Gravity Dams Considering Various Interaction Conditions. 2nd International Symposium on Natural Hazards and Disaster Management, 296-305. (Tam Metin Bildiri/Sözlü Sunum).
- 13- Sünbül, A.B., **Çavuşli, M.**, Kartal, M.E., Sünbül, F. (2017). A Case Study On 3d Non-Linear Analysis of a Clay Core Rockfill Dam. ICONTES2017: International Conference on Technology, Engineering and Science, 1, 388-396. (Tam Metin Bildiri/Sözlü Sunum).
- 14- Karabulut, M., Kartal, M.E., Çapar, Ö.F., **Çavuşli, M.** (2016). Elastic Foundation Effects on Arch Dams. International Congress On Advances in Civil Engineering (2016) (Tam Metin Bildiri/Sözlü Sunum).

- 15- Coşkan, S., Kartal, M.E., Karabulut, M., **Çavuşli, M.** (2016). Near Fault Far Field Ground Motion Effects on the Earthquake Performance of RC Buildings Considering Various Concrete Strengths. International Science and Technology Conference (2016), 723-728. (Tam Metin Bildiri/Sözlü Sunum).
- 16- **Çavuşli, M.**, Özölçer, İ.H., Kartal, M.E., Karabulut, M., Coşkan, S. (2016). The Effect of Reservoir Length on the Earthquake Behavior of Roller Compacted Concrete Dams. International Science and Technology Conference (2016), 988-995. (Tam Metin Bildiri/Sözlü Sunum).
- 17- Karabulut, M., Kartal, M.E., **Çavuşli, M.**, Coşkan, S., Dursun, O. (2016). Investigation of Concrete Gravity Dam Behaviour Considering Dam Foundation Reservoir Interaction. International Science and Technology Conference (2016), 673-681. (Tam Metin Bildiri/Sözlü Sunum).
- 18- Coşkan, S., Kartal, M.E., **Çavuşli, M.**, Karabulut, M. (2016). Farklı Oranlarda Uçucu Kül Kullanımının Betonarme Davranışa Etkileri. International Science and Technology Conference (2016), 498-507. (Tam Metin Bildiri/Sözlü Sunum).
- 19- Karabulut, M., Kartal, M.E., **Çavuşli, M.**, Tanrivermiş, D., Kayalar, B. (2015). Elastic Foundation Effects on Three Dimensional Arch Dams. International Science and Technology Conference (2015), 173-185. (Tam Metin Bildiri/Sözlü Sunum).
- 20- **Çavuşli, M.**, Özölçer, İ.H., Kartal, M.E., Karabulut, M., Dağlı, E. (2015). Evaluation of Earthquake Behaviour of the Roller Compacted Concrete Dam on Reservoir Water Levels. International Science and Technology Conference (2015), 190-200. (Tam Metin Bildiri/Sözlü Sunum).
- 21- Kartal, M.E., Bayraktar, A., **Çavuşli, M.**, Karabulut, M., Başağa, H.B. (2015). Investigation of RCC Dams Considering Viscous Boundary Condition. International Sustainable Buildings Symposium (2015), 144-150. (Tam Metin Bildiri/Sözlü Sunum).

Papers Presented in National Congresses and Published in Proceedings

- 1- **Çavuşli, M.**, Kartal, M.E., Özölçer, İ.H., Karabulut, M. (2015). Silindirle Sıkıştırılmış Beton Barajın Sediment Etkisi Altında Performans Değerlendirilmesi. Sekizinci Ulusal Deprem Konferansı (2015). (Tam Metin Bildiri/Sözlü Sunum).